

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1-29 (Cancelled)

30. (currently amended) A composite (M) comprising:

a) at least 75 vol% of a mixed electronic/oxygen O²⁻ anionic conducting compound (C₁) which, at the use temperature, are in the form of a crystal lattice having oxide ion vacancies, compound (C₁) being a perovskite compound of a formula selected from the group consisting of:

- 1) La_(1-x-u)Sr_xAl_uFe_(1-v)Ti_vO_{3-δ},
- 2) La_(1-x-u)Sr_xAl_uFe_(1-v)Ga_v O_{3-δ},
- 3) La_(1-x)Sr_xFe_(1-v)Ti_vO_{3-δ},
- 4) La_(1-x)Sr_xTi_(1-v)Fe_v O_{3-δ},
- 5) La_(1-x)Sr_xFe_(1-v)Ga_vO_{3-δ} or
- 6) La_(1-x)Sr_xFeO_{3-δ}

where:

0 < x ≤ 0.5;

0 ≤ u ≤ 0.5;

(x + u) ≤ 0.5;

0 ≤ y ≤ 0.9;

0 ≤ v ≤ 0.9;

0 ≤ (y + v) ≤ 0.9; and

w is such that the structure in question is electrically neutral;

b) from at least 0.1 vol% but not more than 10 vol% of a compound (C₂) chosen from ~~oxide type materials, calcium oxide (CaO), aluminum oxide (Al₂O₃), zirconium~~

~~oxide (ZrO_2), titanium oxide (TiO_2), mixed strontium aluminum oxides $SrAl_2O_4$ selected from the group consisting of magnesium oxide (MgO) and or $Sr_3Al_2O_6$, mixed barium titanium oxide ($BaTiO_3$), mixed calcium titanium oxide ($CaTiO_3$), $La_{0.5}Sr_{0.5}Fe_{0.9}Ti_{0.1}O_{3.5}$ or $La_{0.6}Sr_{0.4}Fe_{0.9}Ga_{0.1}O_{3.5}$; and~~

c) from 0 vol% to 2.5 vol% of a compound (C_3) produced from at least one chemical reaction represented by the equation:



in which equation F_{C1} , F_{C2} and F_{C3} represent the respective crude formulae of compounds (C_1), (C_2) and (C_3) and x , y and z represent rational numbers greater than or equal to 0.

31. (previously presented) The composite of claim 30, in which grains of compound (C_2) have an equiaxed shape with a diameter ranging from 0.1 μm to 5 μm .

32. (currently amended) The composite of claim 30, in which the volume fraction of compound (C_3) does not exceed 1.5% ~~and more particularly does not exceed 0.5% by volume~~.

33. (Previously presented) The composite of claim 32, in which the volume fraction of compound (C_3) in the composite tends toward 0.

34. (canceled)

35. (currently amended) The composite of claim 34 30, in which the volume fraction of compound (C_2) does not exceed 5%.

36. (canceled)

37. (canceled)
38. (canceled)
39. (canceled)
40. (canceled)
41. (canceled)
42. (canceled)
43. (canceled)
44. (canceled)
45. (canceled)
46. (previously presented) The composite of claim 30, of formula:
 - a) $\text{La}_{0.6} \text{Sr}_{0.4} \text{Fe}_{0.9} \text{Ga}_{0.1} \text{O}_{3-\delta}$, or
 - b) $\text{La}_{0.5} \text{Sr}_{0.5} \text{Fe}_{0.9} \text{Ti}_{0.1} \text{O}_{3-\delta}$.
47. (canceled)
48. (canceled)
49. (canceled)

50. (previously presented) The composite of claim 30, wherein compound (C₂) is MgO.